

Appendix F

WAG 5 Fauna and Functional Groups

Table F-1. Faunal functional groups and species potentially present at WAG 5.

Class	Functional Group	Taxonomic Name	Common Name	Distribution/ Status ^a	Abundance/ Season/stat ^b		
Aves	AV121	<i>Carduelis pinus</i>	Pine siskin	f, d	S5, M3		
		<i>Carduelis tristis</i>	American goldfinch	d, ss	M5		
		<i>Coccothraustes vespertinus</i>	Evening grosbeak	d	S5, M3		
		<i>Bombycilla cedrorum</i>	Cedar waxwing	f, d	S5, M3, W5		
Aves	AV122	<i>Passer domesticus</i>	House sparrow	f, d	B2, M1, W3		
		<i>Selasphorus rufus</i>	Rufous hummingbird	d	S3, M3		
		<i>Zenaida macroura</i>	Mourning dove	sw	B1, M3, W5		
		<i>Chondestes grammacus</i>	Lark sparrow	sw	S3, M5		
		<i>Plectrophenax nivalis</i>	Snow bunting	g, ss	W5		
		<i>Leucosticte arctoa</i>	Rosy finch	ss	M5, W5		
		<i>Carpodacus mexicanus</i>	House finch	f, d	S3, M3		
		<i>Perdix perdix</i>	Gray partridge	g, ss, f	R3		
		<i>Alectoris chukar</i>	Chukar	g, ss	R3		
		<i>Dendragapus obscurus</i>	Blue grouse	f	S6		
		<i>Centrocercus urophasianus</i>	Sage grouse	ss, g, f	R2		
		<i>Eremophila alpestris</i>	Horned lark	g, ss	R2		
		<i>Junco hyemalis</i>	Dark-eyed junco	sw	M3		
		<i>Columba livia</i>	Rock dove	sw	R2		
		Aves	AV132	<i>Porzana carolina</i>	Sora	w, f	B5, M5
Aves	AV210	<i>Contopus borealis</i>	Olive-sided flycatcher	d	S5, M5		
		<i>Empidonax difficilis</i>	Western flycatcher	d	S5		
		<i>Myiarchus cinerascens</i>	Ash-throated flycatcher	d	S5		
		<i>Tyrannus verticalis</i>	Western kingbird	f, d, j	B3, M3		
		<i>Tyrannus tyrannus</i>	Eastern kingbird	f, d, j	B3, M3		
		<i>Tachycineta bicolor</i>	Tree swallow	d, j	B3, M3		
		<i>Tachycineta thalassina</i>	Violet-green swallow	d, j	B4, M4		
		<i>Myadestes townsendi</i>	Townsend's Solitaire	d	S5, M5		
		<i>Chordeiles minor</i>	Common nighthawk	sw	B2, M3		
		<i>Aeronautes saxatalis</i>	White-throated swift	d	S5		
		<i>Sayornis saya</i>	Say's phoebe	ss, d, f, j	B3, M3		
		Aves	AV210A	<i>Stelgidopteryx serripennis</i>	Northern rough-winged swallow	d, j	B3, M3
				<i>Riparia riparia</i>	Bank swallow	d, j	B5, M3
<i>Hirundo pyrrhonota</i>	Cliff swallow			d, j	B2, M2		
<i>Hirundo rustica</i>	Barn swallow			d, j	B2, M3		
Aves	AV221	<i>Regulus calendula</i>	Ruby-crowned kinglet	d	M3, W6		
		<i>Sialia mexicana</i>	Western bluebird	ss	S5, M5		
		<i>Bombycilla garrulus</i>	Bohemian waxwing	f, d	S3, M2, W3		
		<i>Vireo gilvus</i>	Warbling vireo	d	S5, M5		
		<i>Dendroica petechia</i>	Yellow warbler	d	B5, M3		
		<i>Dendroica coronata</i>	Yellow-rumped warbler	d	S3, M3		
		<i>Dendroica townsendi</i>	Townsend's warbler	d	M5		
		<i>Geothlypis trichas</i>	Common yellowthroat	d	S5		
		<i>Wilsonia pusilla</i>	Wilson's warbler	d	S5, M5		

Table F-1. (continued).

Class	Functional Group	Taxonomic Name	Common Name	Distribution/ Status ^a	Abundance/ Sseason/stat ^b
		<i>Icteria virens</i>	Yellow-breasted chat	d	S5
		<i>Piranga ludoviciana</i>	Western tanager	d	S3, M3
		<i>Pheucticus melanocephalus</i>	Black-headed grosbeak	sw	S5, M5
		<i>Icterus galbula</i>	Northern oriole	d	S3, M3
		<i>Picoides pubescens</i>	Downy woodpecker	d	B5, M5
		<i>Colaptes auratus</i>	Northern flicker	d	B3, M3
Aves	AV222	<i>Larus pipixcan</i>	Franklin's gull	w, ss	S3, M3
		<i>Larus californicus</i>	California gull	w, ss	S5, M3
		<i>Sturnus vulgaris</i>	European starling	sw	R3
		<i>Troglodytes aedon</i>	House wren	d	R3
		<i>Sialia currucoides</i>	Mountain bluebird	ss	S3, M3
		<i>Turdus migratorius</i>	American robin	sw	B2, M2
		<i>Oreoscoptes montanus</i>	Sage thrasher	ss	B2, M2
		<i>Passerina amoena</i>	Lazuli bunting	d	S5, M5
		<i>Spizella passerina</i>	Chipping sparrow	f, d, ss	M5
		<i>Spizella breweri</i>	Brewer's sparrow	ss	B2, M2
		<i>Amphispiza bilineata</i>	Black-throated sparrow	ss	S5, M5
		<i>Amphispiza belli</i>	Sage sparrow	ss	B2, M2
		<i>Passerculus sandwichensis</i>	Savannah sparrow	d, g	S5, M3
		<i>Zonotrichia leucophrys</i>	White-crowned sparrow	ss	M4
		<i>Sturnella neglecta</i>	Western meadowlark	g, ss	B2, M2, W3
		<i>Euphagus cyanocephalus</i>	Brewer's blackbird	sw	B2, M2, W5
		<i>Molothrus ater</i>	Brown-headed cowbird	ss	B3, M3
		<i>Charadrius vociferus</i>	Killdeer	sw	B2, M2
		<i>Anthus spinoletta</i>	Water pipit	ss	M5
		<i>Pipilo chlorurus</i>	Green-tailed towhee	ss	S3, M3
		<i>Pipilo erythrophthalmus</i>	Rufous-sided towhee	sw	S3, M3
		<i>Pooecetes gramineus</i>	Vesper sparrow	g, ss	B3, M3
		<i>Calamospiza melanocorys</i>	Lark bunting	ss	S5, M5
		<i>Melospiza melodia</i>	Song sparrow	d	S5, M3
Aves	AV222A	<i>Salpinctes obsoletus</i>	Rock wren	ss	B3, M3
		<i>Catherpes mexicanus</i>	Canyon wren	ss	S5, M5
Aves	AV232	<i>Agelaius phoeniceus</i>	Red-winged blackbird	w, ss	B3, M3
		<i>Xanthocephalus xanthocephalus</i>	Yellow-headed blackbird	w, d	B4, M3
Aves	AV310	<i>Accipiter striatus</i>	Sharp-shinned hawk	sw	S5, M5, W5
		<i>Accipiter cooperii</i>	Cooper's hawk	sw	S3, M5, W5
		<i>Accipiter gentilis</i>	Northern goshawk	sw	S5, M5, W5
		<i>Falco columbarius</i>	Merlin	sw	R5
		<i>Falco peregrinus</i>	Peregrine falcon	sw	S5, M5, W5
		<i>Falco mexicanus</i>	Prairie falcon	sw	R3
Aves	AV322	<i>Nyctea scandiaca</i>	Snowy owl	sw	W5
		<i>Haliaeetus leucocephalus</i>	Bald eagle	sw	M5, W3
		<i>Falco sparverius</i>	American kestrel	sw	B2, M2, W3
		<i>Circus cyaneus</i>	Northern harrier	sw	R2

Table F-1. (continued).

Class	Functional Group	Taxonomic Name	Common Name	Distribution/ Status ^a	Abundance/ Season/stat ^b
		<i>Buteo swainsoni</i>	Swainson's hawk	sw	B3, M3, W5
		<i>Buteo jamaicensis</i>	Red-tailed hawk	sw	B3, M3, W5
		<i>Buteo regalis</i>	Ferruginous hawk	sw	B3, M3, W5
		<i>Lanius excubitor</i>	Northern shrike	sw	M3, W5
		<i>Lanius ludovicianus</i>	Loggerhead shrike	ss	B3
		<i>Bubo virginianus</i>	Great horned owl	sw	R3
		<i>Asio otus</i>	Long-eared owl	d	B4, M4
		<i>Asio flammeus</i>	Short-eared owl	ss, g	B3, M3
		<i>Aegolius acadicus</i>	Northern saw-whet owl	sw	S6, M6, W6
		<i>Aquila chrysaetos</i>	Golden eagle	sw	B3, M4, W2
		<i>Cathartes aura</i>	Turkey vulture	sw	S3, M3, W6
		<i>Buteo lagopus</i>	Rough-legged hawk	sw	S6, M2, W2
Aves	AV322A	<i>Athene cunicularia</i>	Burrowing owl	ss, g	B3, M3, W6
Aves	AV422	<i>Aphelocoma coerulescens</i>	Scrub jay	U	U
		<i>Pica pica</i>	Black-billed magpie	sw	R2
		<i>Corvus brachyrhynchos</i>	American crow	sw	R3
		<i>Phasianus colchicus</i>	Ring-necked pheasant	g, ss	R3
		<i>Corvus corax</i>	Common raven	sw	R3
		<i>Larus argentatus</i>	Herring gull	w, ss, g	S3, M3
Aves	AV432	<i>Larus delawarensis</i>	Ring-billed gull	w, ss, g	S3, M3
Mammalia	M121	<i>Erethizon dorsatum</i>	Porcupine	r, f	I4
Mammalia	M122	<i>Lepus townsendii</i>	White-tailed jackrabbit	sw, ss	R4
		<i>Lepus californicus</i>	Black-tailed jackrabbit	sw, ss	R1, R4 (cyclic)
		<i>Reithrodontomys megalotis</i>	Western harvest mouse	sw, ss, g	R2
		<i>Cervus elaphus</i>	Elk	sw	R4
		<i>Odocoileus hemionus</i>	Mule deer	sw, ss, g	R3
		<i>Antilocapra americana</i>	Pronghorn	sw, ss, f	R1
Mammalia	M122A	<i>Sylvilagus nuttallii</i>	Nuttall's cottontail	sw, ss, f	R2
		<i>Brachylagus idahoensis</i>	Pygmy rabbit	ss, ro	R2
		<i>Marmota flaviventris</i>	Yellow-bellied marmot	sw, ro	R3
		<i>Spermophilus townsendii</i>	Townsend's ground squirrel	sw, ss, f	R2
		<i>Perognathus parvus</i>	Great basin pocket mouse	sw, ss	R3
		<i>Dipodomys ordii</i>	Ord's kangaroo rat	sw, ss, g	R2
		<i>Neotoma cinerea</i>	Bushy-tailed woodrat	sw, ro	R2
		<i>Microtus montanus</i>	Montane vole	sw, g, f	R1, R4 (cyclic)
		<i>Lagurus curtatus</i>	Sagebrush vole	ss	R3
Mammalia	M123	<i>Thomomys talpoides</i>	Northern pocket gopher	ss	R4
Mammalia	M210	<i>Lasiurus cinereus</i>	Hoary bat	d, j	U3
		<i>Lasionycteris noctivagans</i>	Silver-haired bat	sw	M4
Mammalia	M210A	<i>Myotis leibii</i>	Small-footed myotis	sw, ro	R2
		<i>Eptesicus fuscus</i>	Big-brown bat	sw, f, c	R3
		<i>Plecotus townsendii</i>	Townsend's western big-eared bat	sw, c	R2

Table F-1. (continued).

Class	Functional Group	Taxonomic Name	Common Name	Distribution/ Status ^a	Abundance/ Sseason/stat ^b
Mammalia	M222	<i>Myotis lucifugus</i>	Little Brown myotis	sw, f	I2
		<i>Myotis californicus</i>	California myotis	sw	U2
		<i>Sorex merriami</i>	Merriam's shrew	sw, ss	R4
		<i>Onychomys leucogaster</i>	Northern grasshopper mouse	sw, ss	R4
Mammalia	M322	<i>Mustela frenata</i>	Long-tailed weasel	sw, ss	R2
		<i>Taxidea taxus</i>	Badger	sw	R3
		<i>Felis rufus</i>	Bobcat	sw, ss, j	R4
Mammalia	M422	<i>Tamias minimus</i>	Least chipmunk	sw, ss	R1
		<i>Peromyscus maniculatus</i>	Deer mouse	sw	R1
		<i>Rattus norvegicus</i>	Norway rat	NW/NE INEEL; ag	R5 (?)
Mammalia	M422A	<i>Mus musculus</i>	House mouse	f	R5 (?)
		<i>Spilogale gracilis</i>	Western spotted skunk	sw, ro	R5
		<i>Canis latrans</i>	Coyote	sw	R2
		<i>Phrynosoma douglasii</i>	Short-horned lizard	sw, ss	R1
Reptilia	R222	<i>Sceloporus graciosus</i>	Sagebrush lizard	sw, ss	R1
		<i>Eumeces skiltonianus</i>	Western skink	South INEEL	R5
Reptilia	R322	<i>Masticophis taeniatus</i>	Desert striped whipsnake	NE INEEL, ss	R3
		<i>Pituophis melanoleucus</i>	Gopher snake	sw, ss	R2
		<i>Thamnophis elegans</i>	Western garter snake	sw	R3
		<i>Coluber constrictor</i>	Western racer	sw	I5
		<i>Crotalus viridis</i>	Western rattlesnake	sw, ss	R2

- a.
- w On or near water
 - ss Shrub-steppe
 - d Deciduous or riparian
 - j Juniper woodland
 - g Grassland
 - sw Sitewide
 - f Facility complexes
 - c Cave
 - ro rocky outcrop
 - U Unknown
 - r Riparian
 - ag Agricultural area

- b.
- 1 Abundant—very numerous and certain to be seen or sampled
 - 2 Common—likely but not certain to be observed or sampled
 - 3 Uncommon—found in limited numbers, not likely to be sampled or observed
 - 4 Occasional or local—a species that is not always present or is restricted in distribution
 - 5 Rare—a species that has a range including all or part of INEEL, but has been documented ≤ seven times on INEEL
 - 6 Vagrant or accidental—a species that is not expected to occur on INEEL, but has been recorded there
 - 7 Possible occurrence—species for which sightings have been unverified or geographical range overlaps INEEL (and preferred habitat occurs on INEEL.
 - R Breeder and year-round resident
 - B Summer breeder
 - M Migrant
 - I Incidental species
 - W Winter visitor
 - S Summer visitor: no breeding records
 - U Unknown

Table F-2. Functional groups and species not included in the literature search or individually evaluated for the WAG 5 ERA.

Functional Group	Common Name	Habitat ^a	Abundance/ Seasons ^b	Regulatory Status ^c	Criteria for Exclusion	
A232	Great basin spadefoot toad	w	R2		Geographic—aquatic, sinks, and spreading areas	
	Boreal chorus frog	W	R4		Geographic—aquatic	
	Western toad	w,d	U7		Incidental species	
AV122	Black-chinned hummingbird	ag,d	U7		Possible but not recorded on INEEL	
	Calliope hummingbird	ag,d	U7		Possible but not recorded on INEEL	
	Sharp-tailed grouse	g, ss	I6		Incidental species	
AV122	Broad-tailed hummingbird	ag,d	U7		Possible but not recorded on INEEL	
	Blue grouse	F	S6		Vagrant species	
AV142	Snow goose	W	M5		Geographic—on or near water	
	Green-winged teal	W	S5, M5		Geographic—on or near water	
	Redhead	W	S5, M5, W5		Geographic—on or near water	
	Ring-necked duck	W	S5, M5		Geographic—on or near water	
AV143	Tundra swan	W	M5		Geographic—on or near water	
	Canada goose	W	S3, M3		Geographic—on or near water	
	Mallard	W	B2, M2, W3		Geographic—on or near water	
	Northern pintail	W	S3, M3		Geographic—on or near water	
	Blue-winged teal	W	B2, M3		Geographic—on or near water	
	Cinnamon teal	W	S3, M3		Geographic—on or near water	
	Northern shoveler	W	B3, M3		Geographic—on or near water	
	Gadwall	W	S3, M3		Geographic—on or near water	
	American wigeon	W	S3, M3		Geographic—on or near water	
	Canvasback	W	B5, M5		Geographic—on or near water	
	Ross' goose	W	I6		Incidental species	
	White-fronted goose	W	I6		Incidental species	
	AV210	Gray flycatcher	g,ss,j	U7		Incidental species
		Western wood-pewee	D	I6		Incidental species
Willow flycatcher		D	U7		Incidental species	
Dusky flycatcher		D	U7		Incidental species	
Common poor-will		J	I6		Incidental species	
AV221	Black-and-white warbler	U	I6		Incidental species	
	Swainson's thrush	U	I6		Incidental species	
	Blue-gray gnatcatcher	U	I6		Incidental species	
	Red-naped sapsucker	U	I6		Incidental species	
	Lewis' woodpecker	U	I6		Incidental species	
	MacGillivray's warbler	U	I6		Incidental species	
	Orange-crowned warbler	U	I6		Incidental species	
	American redstart	F	M6		Vagrant species	
Mountain chickadee	d,j	U7		Incidental species		

Table F-2. (continued).

Functional Group	Common Name	Habitat ^a	Abundance/ Seasons ^b	Regulatory Status ^c	Criteria for Exclusion
	Lapland longspur	g,ss	U7		Incidental species
	Hairy woodpecker	ag,d	U7		Incidental species
	Black-capped chickadee	d,j	U7		Incidental species
AV222	Varied thrush	Ss	W6		Vagrant species (winter)
	Flammulated owl		I6		Incidental species
	Harris' sparrow		I6		Incidental species
	Hermit thrush		I6		Incidental species
	Lincoln's sparrow		I6		Incidental species
	Northern mockingbird	J	S6		Geographical—juniper woodland habitat
	Lapland longspur	g,ss	I7		Incidental species
	Western sandpiper	W	I6		Incidental species
	Semipalmated plover	W	I6		Incidental species
AV232	Virginia rail	W	U7		Incidental species
	Marsh wren	W	U7		Incidental species
	Baird's sandpiper	W	I6		Incidental species
	Mountain plover	U	I6		Incidental species
	Orchard oriole	U	I6		Incidental species
	Spotted sandpiper	W	S3, M3		Geographic—on or near water
	Least sandpiper	W	S5, M5		Geographic—on or near water
AV233	Cattle egret	W	I6		Incidental species
	Black-necked stilt	W	I6		Incidental species
	Snowy egret	w	I6		Incidental species
	Solitary sandpiper	w	S5, M3		Geographic—on or near water
	Marbled godwit	w	S3, M5		Geographic—on or near water
	Long-billed dowitcher	w	M5		Geographic—on or near water
	Common snipe	w	S5, M5		Geographic—on or near water
	White-faced ibis	w	S5, M5		Geographic—on or near water
	Long-billed curlew	w	S3, M3		Geographic—on or near water
AV241	Wood duck	w	S6, M5		Geographic—on or near water
	Red-necked phalarope	w	M5		Geographic—on or near water
	Wilson's phalarope	w	S3, M3		Geographic—on or near water
AV242	Surf scoter	w	I6		Incidental species
	Barrow's goldeneye	w	S6, M5		Vagrant species
	Lesser scaup	w	S5, M3, W3		Geographic—on or near water
	Common goldeneye	w	S5, M3, W3		Geographic—on or near water
	Barrow's goldeneye	w	S6, M5		Geographic—on or near water
	Ruddy duck	w	B5, M3		Geographic—on or near water
	Lesser yellowlegs	w	S5, M5		Geographic—on or near water
	Bonaparte's gull	w	M5		Geographic—on or near water
	Bufflehead	w	S5, M3		Geographic—on or near water
	Pied-billed grebe	w	S5, M5		Geographic—on or near water

Table F-2. (continued).

Functional Group	Common Name	Habitat ^a	Abundance/ Seasons ^b	Regulatory Status ^c	Criteria for Exclusion
	Horned grebe	w	M5		Geographic—on or near water
	Eared grebe	w	B5, M3, W3		Geographic—on or near water
AV310	Gyr Falcon	sw	M6	SSC,S	Incidental species
AV322	Northern pygmy owl	d	U7	SSC	Incidental species
	Boreal owl		I6		Incidental species
	Western screech owl	d	U7		Incidental species
AV332	Northern saw-whet owl	sw	S6, M6, W6		Vagrant species
AV333	Green-backed heron	w	S6, M6		Vagrant species
AV342	Red-breasted merganser	w	I6		Incidental species
	Black-legged kittiwake	w	W6		Vagrant species (winter)
AV422	Hooded merganser	w	I6		Incidental species
	Double-crested cormorant	w	I6		Incidental species
	Blue jay	U	I6		Incidental species
	Clark's nutcracker	j	S4, M4, W5		Geographical—juniper woodland habitat
AV432	American avocet	w	S2, M3		Geographic—on or near water
AV433	Sandhill crane	U	I6		Incidental species
	Great egret	w	S5, M5		Geographic—on or near water
AV442	American coot	w	R3		Geographic—on or near water
M122	Moose	sw	T6		Transient species - Rare
	Mountain sheep	N INEEL	T6		Transient species - Rare
M132	Muskrat	w	S5,W5 (cyclic)		Geographical—aquatic habitat (Big Lost River)
	Beaver	w	R4,S,W		Geographical—aquatic habitat (Big Lost River)
M210	Yuma myotis	sw	U7		Incidental species
	Silver-haired bat	sw	U7		Incidental species
	Western pipistrelle	sw	U7	C2,SSC,S	Incidental species
	Fringed myotis	sw	U7	SSC	Incidental species
M210A	Long-legged myotis	sw	U7		Incidental species
	Pallid bat	sw	U7		Incidental species
M322	Mountain lion	sw	T6		Transient species—Rare
	Striped skunk	ag,d	U7		Incidental species
	Short-tailed weasel (ermine)	ag,d	U7		Incidental species
	Red fox	ag,d	U7		Incidental species
M422	Raccoon	ag,d	U7		Incidental species
O242	Shorthead sculpin	w	R2		Geographical—aquatic species (Big Lost River)
O243	Mountain whitefish	w	R2		Geographical—aquatic species (Big Lost River)
	Speckled dace	w	R3		Geographical—aquatic species (Big Lost River)
	Cutthroat trout	w	U7		Geographical—aquatic species (Big Lost River)
O342	Rainbow trout	w	R2		Geographical—aquatic species (Big Lost River)
	Brook trout	w	R3		Geographical—aquatic species (Big Lost River)
	Utah chub	w	U7		Geographical—aquatic species (Big Lost River)
O442	Kokanee salmon	w	M3		Geographical—aquatic species (Big Lost River)

Table F-2. (continued).

Functional Group	Common Name	Habitat*	Abundance/ Seasons ^b	Regulatory Status ^c	Criteria for Exclusion
R222	Leopard lizard	NE INEEL	R4		Geographical—observations restricted to NE INEEL
R232	Tiger salamander	w	U7		Incidental species
R322	Rubber boa	U	I6		Incidental species
	Ringneck snake	sw	U7	NL,SSC	Incidental species
	Common garter Snake	sw	U7		Incidental species
	Night snake	sw	U7	S	Incidental species

- a. ag Agriculture
w On or near water
ss Shrub-steppe
d Deciduous or riparian
j Juniper woodland
g Grassland
sw Sitewide
f Facility complexes
U Unknown
r Riparian
- b. 1 Abundant—very numerous and certain to be seen or sampled.
2 Common—likely but not certain to be observed or sampled.
3 Uncommon—found in limited numbers, not likely to be sampled or observed.
4 Occasional or local—a species that is not always present or is restricted in distribution.
5 Rare—a species that has a range including all or part of INEEL, but has been documented ≤ seven times on INEEL.
6 Vagrant or accidental—a species that is not expected to occur on INEEL, but has been recorded there.
7 Possible occurrence—species for which sightings have been verified or geographical range overlaps INEEL (and preferred habitat occurs on INEEL)
I Breeder and year-round resident.
M Incidental.
W Migrant.
S Winter visitor.
T Summer visitor—no breeding records.
U Transient.
Unknown

c. Species management codes for federal (FED) listing, Bureau of Land Management (BLM), U.S. Forest Service Region 4 (USFS), and Audubon Blue List (AUDBL): C2 = category 2 species; 3c = no longer considered for listing; E = endangered species; NL = not listed; SSC = species of special concern; T = threatened species; S = sensitive.